

Claims

[c1] 1. A handheld electronic device, having a geometric center line, comprising:

a body having a display; and

a sliding member pivotally connecting to a bottom of the first body via a pivot connection, wherein the pivot connection is off of the geometric center line for a distance, the sliding member has a keyboard, the sliding member moves between a first position and a second position relative to the body, where at the first position, the keyboard of the sliding member has at least a portion being hidden below the body, and where at the second position, ends of the sliding member protrude out of lateral sides of the body, respectively.

[c2] 2. The handheld electronic device as recited in claim 1, wherein the sliding member rotates from the first position by 90 degrees to the second position.

[c3] 3. The handheld electronic device as recited in claim 2 further comprising a guiding structure to guide the sliding member moving between the first position and the second position.

- [c4] 4.The handheld electronic device as recited in claim 3, wherein the guiding structure comprises an engaging-member and an arched track wherein the engaging member is movably fitted in the track.
- [c5] 5.The handheld electronic device as recited in claim 1, wherein the second body rotates from the first position by 180 degrees to the second position.
- [c6] 6.The handheld electronic device as recited in claim 5 further comprising a guiding structure to guide the sliding member moving between the first position and the second position.
- [c7] 7.The handheld electronic device as recited in claim 6, wherein the guiding structure comprises an engaging member on the sliding member, the engaging member movably fitting in an arched track defined in the bottom of the body.
- [c8] 8.The handheld electronic device as recited in claim 7, wherein the arched track has a configuration of a semi-circle.
- [c9] 9.The handheld electronic device as recited in claim 1, wherein the sliding member is moved from the first position to the second position by firstly movingly linearly and then rotatably relative to the body.

- [c10] 10.The handheld electronic device as recited in claim 1, wherein the sliding member is moved from the first position to the second position by firstly moving rotatably and then linearly relative to the body.
- [c11] 11.The handheld electronic device as recited in claim 1, wherein at the first position, the keyboard on the sliding member has some keys which are exposed under the display.
- [c12] 12.The handheld electronic device as recited in claim 11, wherein the body has operating buttons under the display, and at the first position, the operating buttons are located between the exposed keys of the keyboard of the sliding member and the display.
- [c13] 13.The handheld electronic device as recited in claim 12, wherein the body is integrally formed with a base, and the sliding member is supported by the base.
- [c14] 14.The handheld electronic device as recited in claim 1, wherein the body further comprises a plurality of keys under the display, and at the second position, the keys on the body cooperate with the keyboard of the sliding member to form a Qwerty keyboard.
- [c15] 15.A handheld electronic device, comprising:

a body;
a sliding member pivotably connected to the body, the sliding member having a keyboard thereon, and movable between a first position and a second position, wherein at the second position, the sliding member having two ends protruding out of two sides of the body, respectively.

- [c16] 16. The handheld electronic device as recited in claim 15, wherein at the second position, the handheld electronic device has a T-shaped configuration.
- [c17] 17. The handheld electronic device as recited in claim 15, where at the second position, the handheld device has a cross-shaped configuration.
- [c18] 18. A handheld electronic device, comprising:
 - a body having a display thereon;
 - a sliding member pivotably mounted to the body and moveable between first and second positions, at the first position, the sliding member being aligned with the body, at the second position, the sliding member having two ends located outside of two sides of the body, respectively.
- [c19] 19. The handheld electronic device as recited in claim 18, wherein the sliding member rotates 90 degrees to move

from the first position to the second position.

- [c20] 20.The handheld electronic device as recited in claim 19 further comprising guiding means for guiding the sliding member to have a reliable and stable movement between the first and second positions.
- [c21] 21.The handheld electronic device as recited in claim 18, wherein the sliding member rotates 180 degrees to move from the first position to the second position.
- [c22] 22.The handheld electronic device as recited in claim 21 further comprising guiding means for guiding the sliding member to have a reliable and stable movement between the first and second positions.
- [c23] 23.The handheld electronic device as recited in claim 18, wherein the sliding member is provided with a keyboard thereon.
- [c24] 24.The handheld electronic device as recited in claim 18, wherein the sliding member is provided with a touch pad thereon.